



# Satellite monitoring supporting infrastructure building for soil defence

**Dott.ssa Daniela Di Carne** (*Commissario Straordinario Delegato per il Dissesto Idrogeologico Regione Puglia – Asset Puglia*)

**Ing. Andrea Doria** (*Ufficio Commissario Straordinario Delegato per il Dissesto Idrogeologico Regione Puglia – Asset Puglia*)

**Ing. Daniele Sgaramella** (*Ufficio Commissario Straordinario Delegato per il Dissesto Idrogeologico Regione Puglia – Asset Puglia*)

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# Extraordinary Commissioner for the hydrogeological instability emergency

## Implementation of urgent interventions:

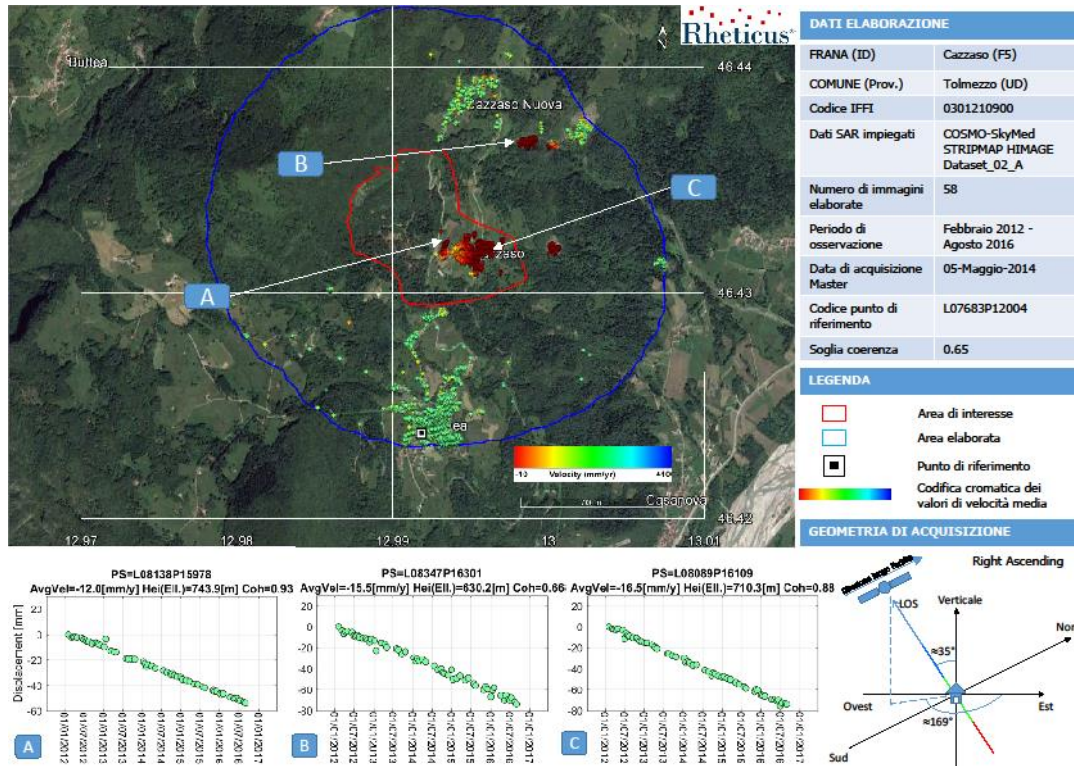
- Hydrogeological hazard analysis
- Completion of ongoing mitigation infrastructures
- Infrastructures consolidation



# Project AOI (Area Of Interest)



# Satellites to monitor ground motion



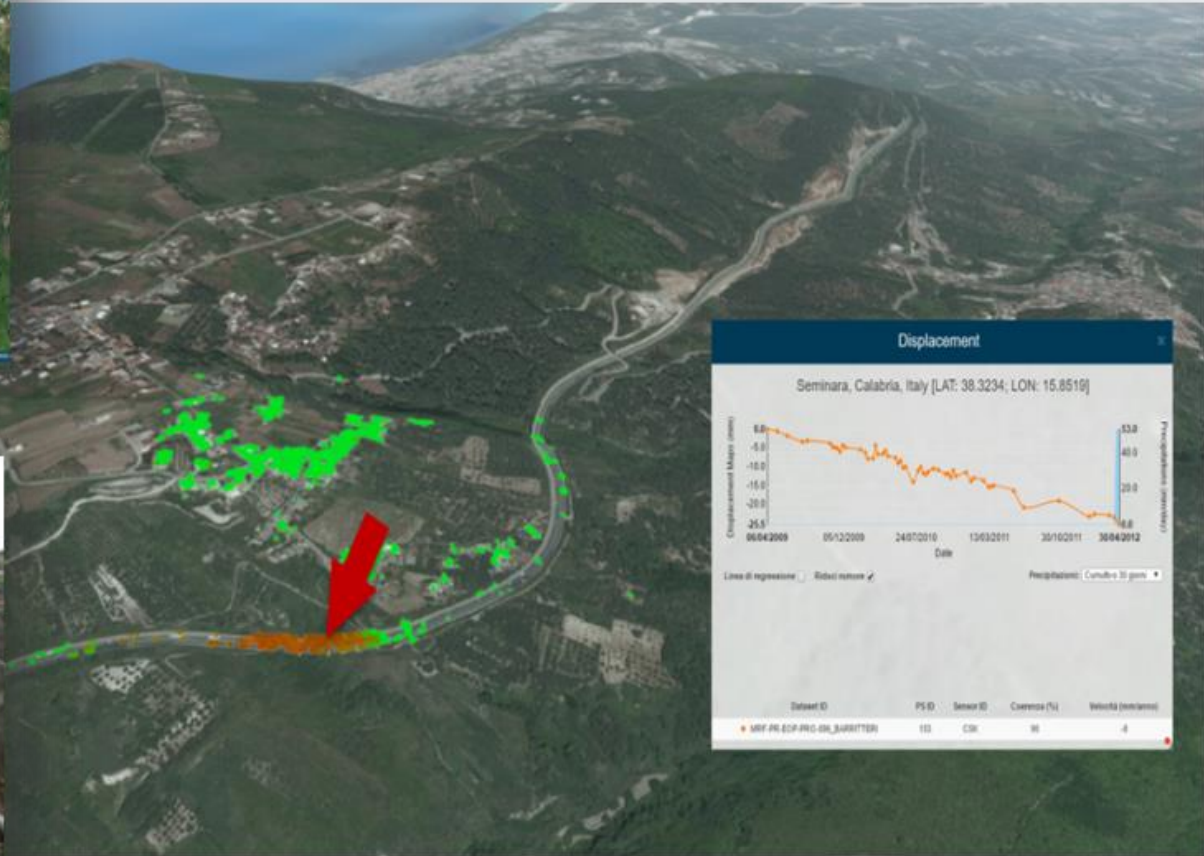
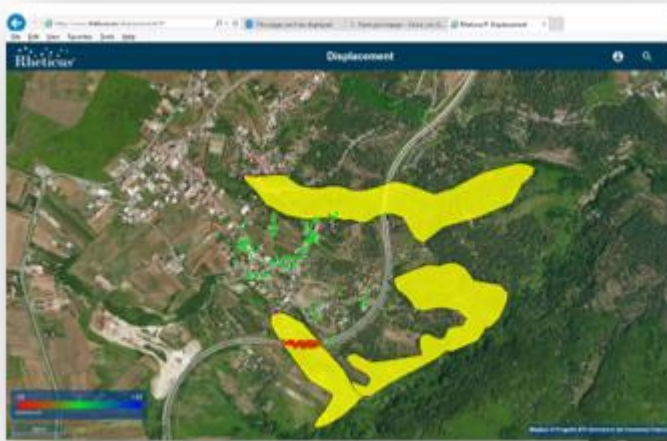
## Applications

- Discover unknown landslides (or subsidence)
- Perimeter and classify landslides
- Analyze interactions with infrastructures

## Civil Protection, Soil Defense

- Improved comprehension of instability phenomena
- Support to designing the mitigation constructions
- Monitoring mitigation effects during constructions
- Effectiveness evaluation of the intervention

# Knowledge spreading: training



# Site analysis: Bovino



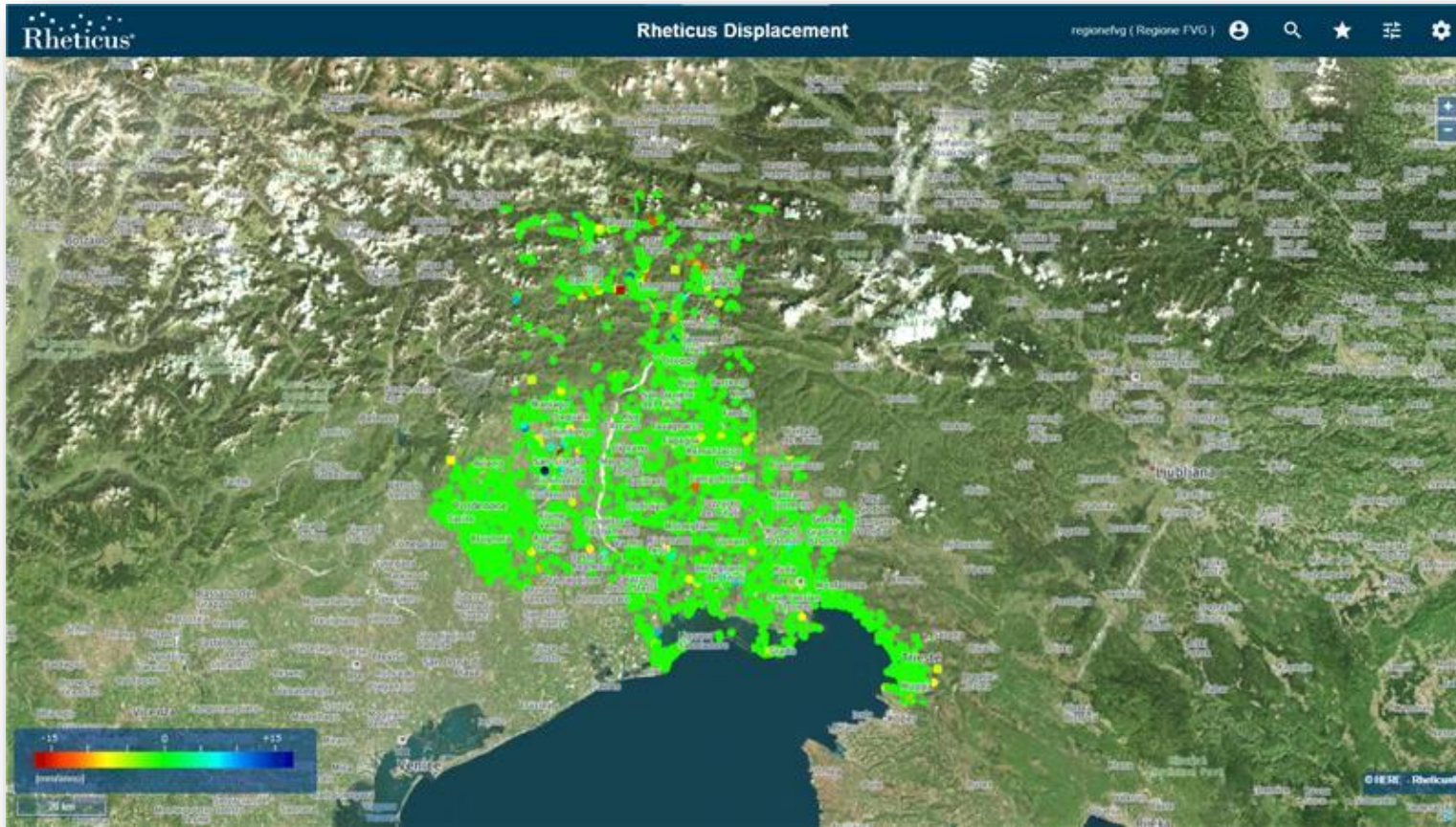
Identification of cyclical movements that stress the materials in an area characterized by a multi-aquifer fed by abundant rainfall

# Site analysis: Celle di San Vito



Study and monitoring “post-construction”

# Evolution: from project to process



**7.924 Km<sup>2</sup>**

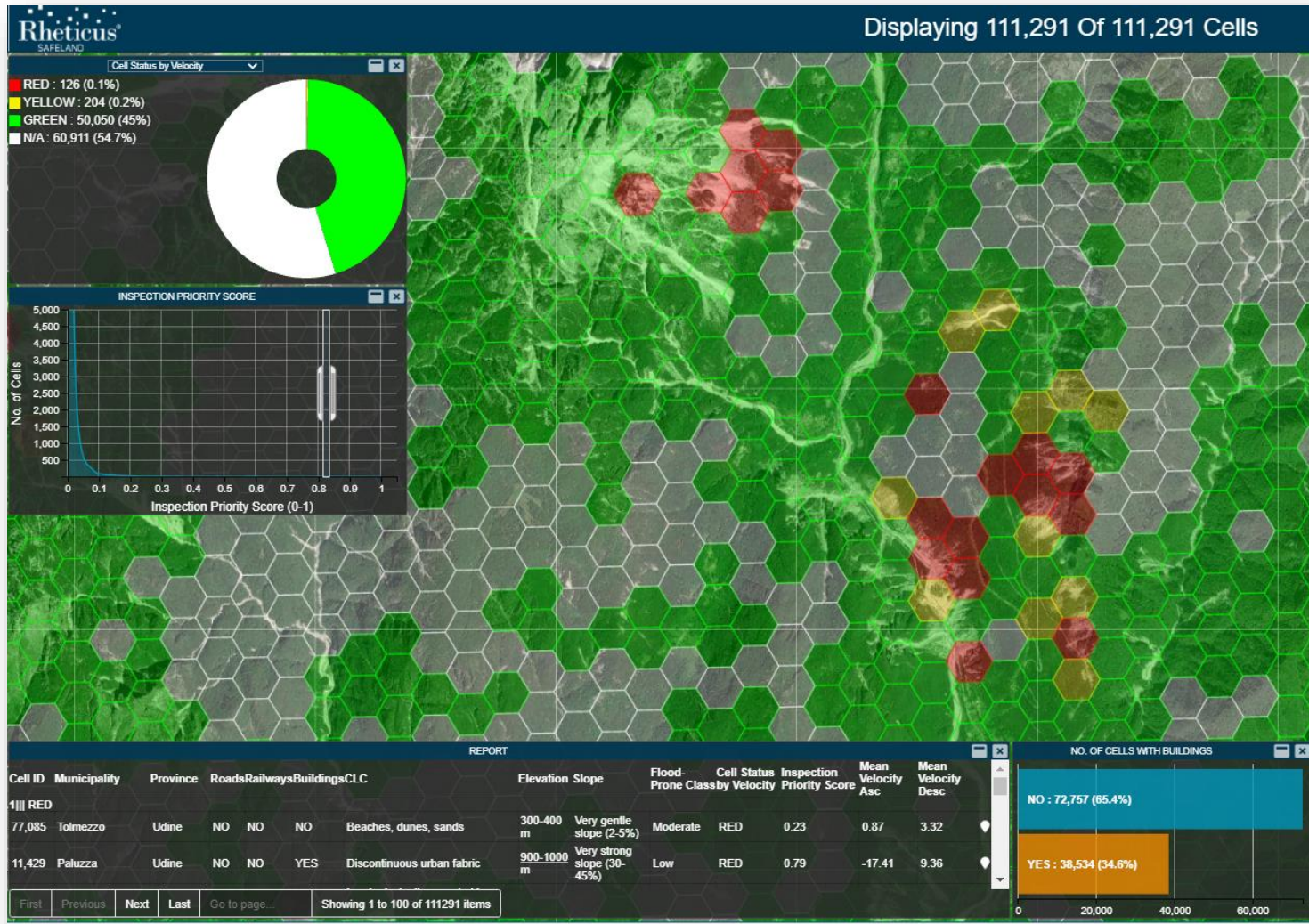
**12.000.00 points**

**111.291 cells**

**126 priorities**



# Rheticus® Safeland





# Thanks!


Massimiliano Arcieri  
Business Development Manager

Government & Security SBU

[arcieri@planetek.it](mailto:arcieri@planetek.it)



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